

## Benjamin W. Barrett

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### Education

**2026** Ph.D. in the Health Sciences Integrated PhD Program, Northwestern University  
Feinberg School of Medicine  
- Health and Biomedical Informatics track.

**2018** Sc.M. in Epidemiology, Johns Hopkins University Bloomberg School of Public Health  
- Cancer Epidemiology track.

**2016** B.A. in Biology and Sociology, Bucknell University  
- Graduated Cum Laude with Honors in Sociology.

### Academic Papers

Slama, L., **Barrett, B.W.**, Abraham, A.G., Palella, F.J., Kingsley, L., Viard, J.P., Lake, J.E., & Brown, T.T. for the Multicenter AIDS Cohort Study (MACS). 2021. Risk for incident diabetes is greater in pre-diabetic men with HIV than without HIV. *AIDS*, 35(10), 1605-1614.

Hessol, N.A., **Barrett, B.W.**, Margolick, J.B., Plankey, M., Hussain, S.K., Seaberg, E.C., & Massad, L.S. 2021. Risk of smoking-related cancers among women and men living with and without HIV. *AIDS*, 35(1), 101-114.

**Barrett, B.W.**, Abraham, A.G., Dean, L.T., Plankey, M.W., Friedman, M.R., Jacobson, L.P., Teplin, L.A., Gorbach, P.M., & Surkan, P.J. 2021. Social inequalities contribute to racial/ethnic disparities in depressive symptomology among men who have sex with men. *Social Psychiatry and Psychiatric Epidemiology*, 56, 259-272.

**Barrett, B.W.**, Paz-Soldan, V.A., Mendoza-Cervantes, D., Sánchez, G.M., Córdova López, J.J., Gravitt, P.E., & Rositch, A.F., on behalf of the Proyecto Precancer study group. 2020. Understanding geospatial factors associated with cervical cancer screening uptake in Amazonian Peruvian women. *JCO Global Oncology*, 6, 1237-1247.

**Barrett, B.W.** & Durden, T.E. 2019. Colorectal cancer screening uptake among US Latino subgroups. *International Journal of Migration, Health and Social Care*, 15(4), 285-293.

**Barrett, B.W.** & Durden, T.E. 2018. Banking on Remittances? How opening a bank account in the United States affects Mexican migrants sending money back to Mexico. *Mexican Studies/Estudios Mexicanos*, 34(2), 165-190.

Moore, M.S., Field, K.A., Behr, M.J., Turner, G.G., Furze, M.E., Stern, D.W.F., Allegra, P.R., Bouboulis, S.A., Musante, C.D., Vodzak, M.E., Biron, M.E., Meierhofer, M.B., Frick, W.F., Foster, J.T., Howell, D., Kath, J.A., Kurta, A., Nordquist, G., Johnson, J.S., Lillely, T.M., **Barrett, B.W.**, & Reeder, D. 2017. Energy conserving thermoregulatory patterns and lower disease severity in a bat resistant to the impacts of white-nose syndrome. *Journal of Comparative Physiology B*, 188, 163-176.

### **Academic Conferences**

Debroy, P., **Barrett, B.**, Erlandson, K.M., Budoff, M., Brown, T.T., Price, J.C., Post, W., Stosor, V., Lellock, C., D'Souza, G., & Lake, J.E. "Relationships Between Frailty, Physical Function, and NAFLD." International Workshop on HIV & Aging, 2021 (Virtual). Poster presentation.

Zhu, X., **Barrett, B.**, Palella, F.J., Margolick, J.B., Macatangay, B.J.C., Detels, R., & Abraham, A.G. "Summing It All Up: The Impact of Missing Data in Analyses Using Cumulative Viremia." Society for Epidemiologic Research, 2020 (Virtual). Poster presentation.

Slama, L., **Barrett, B.**, Abraham, A., Palella, F.J., Kingsley, L., Viard, J.P., Lake, J.E., & Brown, T.T., for the Multicenter AIDS Cohort Study (MACS). "Greater Incident Proteinuria in Pre-Diabetic Men with HIV than Without HIV: The Multicenter AIDS Cohort Study." International Workshop on Adverse Drug Reactions and Co-Morbidities in HIV, 2020 (Virtual). Poster presentation.

Lake, J.E., Wang, R., **Barrett, B.**, Funderburg, N., Bowman, E., Debroy, P., Candelario, J., Teplin, L., McGuinness, J., Bolan, R., McKay, H., Plankey, M., Brown, T.T., & Currier, J.S. "Hormone Use and HIV Alter Cardiovascular Biomarker Profiles in Transgender Women." Conference on Retroviruses and Opportunistic Infections, 2020 (Boston). Poster presentation & Themed discussion.

Slama, L., **Barrett, B.**, Abraham, A., Palella, F.J., Kingsley, L., Viard, J.P., Lake, J.E., & Brown, T.T. "Risk for Incident Diabetes is Greater in Prediabetic Men with HIV than Without HIV." Conference on Retroviruses and Opportunistic Infections, 2020 (Boston). Poster presentation.

Debroy, P., **Barrett, B.**, Erlandson, K.M., Budoff, M., Brown, T.T., Price, J.C., Post, W., Stosor, V., Lellock, C., D'Souza, G., & Lake, J.E. "Relationships between Hepatic Steatosis and Frailty Differ by HIV Serostatus." Conference on Retroviruses and Opportunistic Infections, 2020 (Boston). Poster presentation.

Slama, L., **Barrett, B.**, Abraham, A., Palella, F.J., Kingsley, L., Viard, J.P., Lake, J.E., & Brown, T.T., for the Multicenter AIDS Cohort Study (MACS). "Risk for Incident Diabetes is Greater in Pre-Diabetic Men with HIV than Without HIV: The Multicenter AIDS Cohort Study." International Workshop on Adverse Drug Reactions and Co-Morbidities in HIV, 2019 (Basel, Switzerland). Oral presentation.

Hessol, N.A., **Barrett, B.**, Margolick, J.B., Plankey, M., Hussain, S., Seaberg, E.C., & Massad, L.S. "Risk of Smoking-related Cancers among Women and Men living with and without HIV." International Conference on Malignancies in HIV/AIDS, 2019 (Bethesda). Highlighted poster presentation.

**Barrett, B.W.**, Paz-Soldán, V.A., Gravitt, P.E., & Rositch, A.F., on behalf of the Proyecto Precancer study group. “Characterizing the Geospatial Features in Cervical Cancer Screening Uptake Among Amazonian Peruvian Women.” Johns Hopkins University Bloomberg School of Public Health Department of Epidemiology Master’s Symposium, 2018. Poster presentation.

Rositch, A., **Barrett, B.**, Mendoza-Cervantes, D., Paz-Soldán, V., & Gravitt, P. “Characterizing the Resource Burden of Women across the Cervical Cancer Care Continuum under Different Programmatic Scenarios.” International Papillomavirus Conference, 2018 (Sydney, Australia). Poster presentation.

Rositch, A., **Barrett, B.**, Gravitt, P., & Paz-Soldán, V. “Increasing our Understanding of Factors Associated with Cervical Cancer Screening Uptake in Peruvian Women by Incorporating Geospatial Information.” International Papillomavirus Conference, 2018 (Sydney, Australia). Poster presentation.

**Barrett, B.W.** & Durden, T.E. “United States Assimilation and the Remittance and Savings Patterns of Mexican Migrants.” Bucknell University Kalman Symposium, 2014. Poster presentation.

**Barrett, B.W.** & Durden, T.E. “United States Assimilation and the Remittance and Savings Patterns of Mexican Migrants.” American Sociological Association Conference, 2014 (San Francisco). Roundtable session.

**Barrett, B.W.** “Gender’s Effect on Sexual Promiscuity.” Eastern Sociological Society Conference, 2013 (Boston). Poster presentation.

### **Work & Research Experience**

**2018 – 2021** Biostatistician

*MACS/WIHS Combined Cohort Study*

*Baltimore, MD*

- Assembled and analyzed datasets for investigators.
- Generated figures and tables, and drafted manuscripts and posters for presentation or publication.
- Used statistical software to conduct advanced statistical analyses.
- Regularly communicated and collaborated with investigators to advance project aims.

**2018**

Teaching Assistant for Spatial Analysis III: Spatial Statistics

*Johns Hopkins University School of Public Health Biostatistics Department*

*Baltimore, MD*

- Attended every class session and was available to answer student questions during class or via email.
- Graded problem sets, including detailed comments regarding grading decisions, and entered grades into gradebook.
- Attended office hours and worked with students who came in seeking help.

**2017 – 2018** Applied Epidemiological Researcher

*Johns Hopkins University School of Public Health Epidemiology Department*

*Baltimore, MD*

- Research project focused on cervical cancer care among women in Peru.
- Helped to design a Knowledge, Attitudes, and Practice survey that was implemented in Iquitos and Lima, Peru.
- Conducted field research in Lima.
- Analyzed GPS data in ArcGIS and R to assess the burden of accessing cervical cancer care in Lima and Iquitos, and quantified clustering of cervical cancer screening use.

**2017 – 2018** Data Manager

*Multicenter AIDS Cohort Study (MACS)*

*Baltimore, MD*

- Cleaned participant data collected in semi-annual study visits and entered data into summary files for distribution within the data center.
- Used matching techniques to select specimens to be shipped to investigators from the study specimen repository.
- Kept careful documentation of project and programmatic decisions for later reference.

**2016 – 2017** Data Abstractor

*Johns Hopkins University International Vaccine Access Center*

*Baltimore, MD*

- Systematic review of pneumococcal vaccine uptake and efficacy worldwide.
- Abstracted data in a comprehensive review of published observational studies and clinical trials on pneumococcal conjugate vaccine (PCV) immunogenicity and impact of currently licensed PCV products.
- Entered abstracted information into DistillerSR systematic review software.

**2015**

Epidemiological Researcher

*Statens Serum Institut Department of Infectious Disease Epidemiology*

*Copenhagen, Denmark*

- During a summer internship, generated reports on the utilization of microbiology lab tests by the Danish population, as captured in the real-time Mikrobiologidatabase.
- Delivered a presentation of results to the Infectious Disease Epidemiology Department.
- Documented programmatic decisions to allow for continuation of research once my internship ended.

**2014 – 2016** Biological Researcher

*Bucknell University*

*Lewisburg, PA*

- Research project focused on the etiology of White-Nose Syndrome in *Myotis lucifugus* bats.
- Helped care for live bats.
- Extracted RNA from wing samples.
- Analyzed ultraviolet images of bat wings using Cellprofiler 2.1.0.

**2012 – 2016** Presidential Fellowship Researcher in Sociology

*Bucknell University*

*Lewisburg, PA*

- Analyzed data in projects that primarily focused on Latinx migrants to the United States.
- Designed and led a project exploring remittance patterns captured within Mexican Migration Project data.
- Designed and led an investigation using NHIS data into the association between race/ethnicity and U.S. nativity on the uptake of colorectal cancer screening in the U.S.

### **Peer-Reviewed Journal Service**

**2017 – Present** Ad-hoc journal reviewer, Hispanic Health Care International

**2021 – Present** Ad-hoc journal reviewer, Population Health Metrics

### **Certifications**

**2021** Introduction to Python Programming Professional Certificate, The Georgia Institute of Technology | edX

- Computing in Python I: Fundamentals and Procedural Programming
- Computing in Python II: Control Structures
- Computing in Python III: Data Structures
- Computing in Python IV: Objects & Algorithms

### **Applicable Software Skills**

ArcGIS

Git

Linux/Unix

Python

R

SAS

Stata

### **Awards & Honors**

**2018** Trudy Bush Fund Award, Johns Hopkins University School of Public Health

- Awarded to a Master's student in the Department of Epidemiology who has a specialization in women's health.

**2015 - 2016** Order of Omega Fraternity Honor Society, Bucknell University

**2013 – 2016** Alpha Lambda Delta National Honor Society, Bucknell University

- Honor society for first-year students.

**2013** Summer Undergraduate Research Program Stipend, Bucknell University

**2012 – 2016** Presidential Fellow Scholarship, Bucknell University

**2010** Eagle Scout